

## EAST Search History

| Ref # | Hits | Search Query   | DBs   | Default Operator | Plurals | Time Stamp          |
|-------|------|--|---|------------------|---------|---------------------|
| L1    | 329  | 361/139.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/03/13<br>22:19 |
| L2    | 19   | ((actuator coil solenoid) same (((second two secondary pair dual double) adj current) near2 (detect\$3 measur \$3 sens\$3 monitor\$3))) and diagnosis      | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/03/13<br>22:47 |
| L3    | 11   | ((actuator coil solenoid) and (detect\$3 measur \$3 sens\$3 monitor\$3)) same (integrat\$3 adj current) same (fault\$3 fail \$3 short\$3) same charg\$3    | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/03/13<br>22:47 |
| L4    | 5    | ((actuator coil solenoid) and (detect\$3 measur \$3 sens\$3 monitor\$3)) same (integrat\$3 adj current near3 capacit\$3) same (fault\$3 fail \$3 short\$3) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/03/13<br>22:47 |

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| L5 | 89 | (((second two<br>secondary pair<br>dual double) adj<br>current) near2<br>(detect\$3 measur<br>\$3 sens\$3<br>monitor\$3))) and<br>diagnosis and<br>diagnosis and<br>current and<br>(detect\$3 measur<br>\$5 sens\$3<br>monitor\$3) and<br>(compar\$4<br>differentiat\$3<br>differ\$5 subtract<br>\$3 minus\$3) and<br>(actuator coil<br>solenoid coil<br>contactor<br>contact) and<br>(fault fail short )  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/03/13<br>22:48 |
| L6 | 85 | (((second two<br>secondary pair<br>dual double) adj<br>current) near2<br>(detect\$3 measur<br>\$3 sens\$3<br>monitor\$3))) and<br>diagnosis and<br>(detect\$3 measur<br>\$5 sens\$3<br>monitor\$3) and<br>(compar\$4<br>differentiat\$3<br>differ\$5 subtract<br>\$3 minus\$3) and<br>(actuator coil<br>solenoid coil<br>contactor<br>contact) and<br>(fault fail short )<br>and (algorithm<br>data design<br>formula method<br>principle process<br>code program) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/03/13<br>22:48 |

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|----|----|---|---|----|----|---------------------|
| L7 | 89 | (((second two<br>secondary pair<br>dual double) adj<br>current) near2<br>(detect\$3 measur<br>\$3 sens\$3<br>monitor\$3))) and<br>diagnosis and<br>(detect\$3 measur<br>\$5 sens\$3<br>monitor\$3) and<br>(compar\$4<br>differentiat\$3<br>differ\$5 subtract<br>\$3 minus\$3) and<br>(actuator coil<br>solenoid coil<br>contactor<br>contact) and<br>(fault fail short )   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/03/13<br>22:48 |
| L8 | 2  | (((second two<br>secondary pair<br>dual double) adj<br>current) near2<br>(detect\$3 measur<br>\$3 sens\$3<br>monitor\$3))) and<br>diagnosis and<br>(detect\$3 measur<br>\$5 sens\$3<br>monitor\$3) and<br>(compar\$4<br>differentiat\$3<br>differ\$5 subtract<br>\$3 minus\$3) and<br>(actuator coil<br>solenoid coil<br>contactor<br>contact) and<br>(fault fail (short<br>NEAR GROUND))<br>AND (short<br>NEAR GROUND) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/03/13<br>22:49 |

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|-----|----|---|--|----|----|------------------|
| L9  | 64 | (((second two secondary pair dual double) adj current) near2 (detect\$3 measur \$3 sens\$3 monitor\$3))) and diagnosis and (detect\$3 measur \$5 sens\$3 monitor\$3) and (compar\$4 differentiat\$3 differ\$5 subtract \$3 minus\$3) and (actuator coil solenoid coil contactor contact) and (fault fail (short NEAR GROUND))   | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/03/13 22:49 |
| L10 | 97 | (((second two secondary pair dual double) adj current) near2 (detect\$3 measur \$3 sens\$3 monitor\$3))) and (detect\$3 measur \$5 sens\$3 monitor\$3) and (compar\$4 differentiat\$3 differ\$5 subtract \$3 minus\$3) and (actuator coil solenoid coil contactor contact) and (fault fail short ) and (algorithm data design formula method principle process code program) AND (analys\$3 calculat\$3 determinat\$3 diagnos\$3) and integrat\$3 near2 current | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2008/03/13 22:49 |

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|-----|-----|--|---|----|----|---------------------|
| L11 | 39  | (((second two<br>secondary pair<br>dual double) adj<br>current) near2<br>(detect\$3 measur<br>\$3 sens\$3<br>monitor\$3))) and<br>(detect\$3 measur<br>\$5 sens\$3<br>monitor\$3) and<br>(compar\$4<br>differentiat\$3<br>differ\$5 subtract<br>\$3 minus\$3) and<br>(actuator coil<br>solenoid coil<br>contactor<br>contact) and<br>(fault fail short )<br>and (algorithm<br>data design<br>formula method<br>principle process<br>code program)<br>AND (analys\$3<br>calculat\$3<br>determinat\$3<br>diagnos\$3) and<br>integrat\$3 adj<br>current | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/03/13<br>22:50 |
| L12 | 693 | (((second two<br>secondary pair<br>dual double) adj<br>current) near2<br>(detect\$3 measur<br>\$3 sens\$3<br>monitor\$3))) and<br>(detect\$3 measur<br>\$5 sens\$3<br>monitor\$3) and<br>(compar\$4<br>differentiat\$3<br>differ\$5 subtract<br>\$3 minus\$3) and<br>(actuator coil<br>solenoid coil<br>contactor<br>contact) and<br>(fault fail short )<br>and (algorithm<br>data design  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/03/13<br>22:50 |

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|     |     | formula method<br>principle process<br>code program)<br>AND (analys\$3<br>calculat\$3<br>determinat\$3<br>diagnos\$3) AND<br>(COIL<br>ACTUATOR<br>SOLENOID<br>RELAY)  |   |    |    |                     |
| L13 | 942 | ((((second two<br>secondary pair<br>dual double) adj<br>current) near2<br>(detect\$3 measur<br>\$3 sens\$3<br>monitor\$3))) and<br>(detect\$3 measur<br>\$5 sens\$3<br>monitor\$3) and<br>(compar\$4<br>differentiat\$3<br>differ\$5 subtract<br>\$3 minus\$3) and<br>(actuator coil<br>solenoid coil<br>contactor<br>contact) and<br>(fault fail short )<br>and (algorithm<br>data design<br>formula method<br>principle process<br>code program)<br>AND (analys\$3<br>calculat\$3<br>determinat\$3<br>diagnos\$3) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/03/13<br>22:51 |
| L14 | 3   | ("6498418"<br>"5173832"<br>"6619268").pn.   | USPAT   | OR | ON | 2008/03/13<br>22:54 |

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|-----|---|--|----------|----|----|---------------------|
| L15 | 1 | ((((second two<br>secondary pair<br>dual double) adj<br>current) near2<br>(detect\$3 measur<br>\$3 sens\$3<br>monitor\$3))) and<br>(detect\$3 measur<br>\$5 sens\$3<br>monitor\$3) and<br>(compar\$4<br>differentiat\$3<br>differ\$5 subtract<br>\$3 minus\$3) and<br>(actuator coil<br>solenoid coil<br>contactor<br>contact) and<br>(fault fail short )<br>and (algorithm<br>data design<br>formula method<br>principle process<br>code program)<br>AND (analys\$3<br>calculat\$3<br>determinat\$3<br>diagnos\$3) AND<br>(COIL<br>ACTUATOR<br>SOLENOID<br>RELAY)).clm. | US-PGPUB | OR | ON | 2008/03/14<br>00:21 |
| L16 | 6 | ((((second two<br>secondary pair<br>dual double) adj<br>current) near2<br>(detect\$3 measur<br>\$3 sens\$3<br>monitor\$3))) and<br>(compar\$4<br>differentiat\$3<br>differ\$5 subtract<br>\$3 minus\$3) and<br>(actuator coil<br>solenoid coil<br>contactor<br>contact) and<br>(fault\$3 fail\$3<br>short\$3) and<br>(algorithm data<br>design formula   | US-PGPUB | OR | ON | 2008/03/14<br>00:24 |

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|--|--|---|--|--|--|--|
|  |  | method principle<br>process code<br>program) AND<br>(analys\$3 calculat<br>\$3 determinat\$3<br>diagnos\$3)).clm. |  |  |  |  |
|--|--|---|--|--|--|--|

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